

ABSTRACT

A plasma powder welding device in this invention comprises a powder having an identical kind of main component as that of a work piece, a feeder feeding the powder to the work piece, a welding torch generating a plasma between itself and
5 the work piece for focusing the powder fed by the feeder on the work piece and transferring the powder to the work piece, and a power source supplying an electric power to the welding torch, wherein a distance from the welding torch to a focal point to which the powder is focused is set nearly equal to or more than the height of the torch.